

CLAIMS

1. A transmission system comprising:

a transmission device for receiving a list of frequencies that are judged to be unlikely to cause mutually detrimental disturbance between themselves and the other users who are allowed to use a TV broadcast frequency spectrum by a public institution, and transmitting a digital modulated wave using frequency in the frequency list; and

a reception device for receiving the digital modulated wave transmitted from the transmission device.

2. The transmission system as defined in Claim 1, wherein the transmission device does not transmit the digital modulated wave when the frequency list is not updated within a previously defined period.

3. The transmission system as defined in Claim 1, wherein the transmission device transmits the digital modulated wave through an electric lamp wire, and the reception device receives the digital modulated wave transmitted through the electric lamp wire.

4. The transmission system as defined in Claim 1, wherein the transmission device transmits the digital modulated wave through the air via radio waves, and the reception device receives the digital modulated wave transmitted through the air.

5. The transmission system as defined in Claim 1, wherein the transmission device transmits the digital modulated wave with source information as information on the digital modulated wave added thereto, and

the reception device includes a display for projecting video, receives the digital modulated wave to which the source information is added, and projects video on the display on the basis of the source information.

6. The transmission system as defined in Claim 1 including a plurality of the reception devices.

7. The transmission system as defined in Claim 1 further including

a repeater for receiving the digital modulated wave transmitted from the transmission device and transmitting the digital modulated wave at frequency included in the frequency list, which is different from the frequency of the received digital modulated wave, wherein

the reception device receives the digital modulated wave from the repeater, instead of the digital modulated wave from the transmission device.

8. The transmission system as defined in Claim 7 including a plurality of the repeaters.

9. The transmission system as defined in Claim 1, wherein the transmission device and the reception device perform transmission and reception of the digital modulated wave in the

same building.

10. A transmission device for receiving a list of frequencies that are judged to be unlikely to cause mutually detrimental disturbance between themselves and the other users who are allowed to use a TV broadcast frequency spectrum by a public institution, and transmitting a digital modulated wave using frequency in the frequency list.

11. The transmission device as defined in Claim 10 comprising:
a reception means for receiving a digital modulated wave from a broadcasting station and demodulating the digital modulated wave into a video/sound signal;

a transmission means for modulating the video/sound signal into a digital modulated wave and transmitting the digital modulated wave; and

a control means for outputting the video/sound signal from the reception means to the transmission means and controlling the transmission means so that it transmits the video/sound signal at the frequency in the frequency list.

12. The transmission device as defined in Claim 10, wherein
the digital modulated wave is not transmitted when the frequency list is not updated within a previously defined period.

13. The transmission device as defined in Claim 10, wherein
the digital modulated wave is transmitted through an electric lamp wire.

14. The transmission device as defined in Claim 10, wherein the digital modulated wave is transmitted through the air via radio waves.
15. The transmission device as defined in Claim 10, wherein the digital modulated wave is transmitted with source information as information on the digital modulated wave added thereto.
16. The transmission device as defined in Claim 10, wherein a second frequency list in which the frequency employed for the transmission of the digital modulated wave is deleted from the frequency list is created, and the digital modulated wave is transmitted with the second frequency list added thereto.
17. The transmission device as defined in Claim 10, wherein the digital modulated wave is transmitted to devices in the same building.
18. A reception device for receiving a digital modulated wave transmitted at frequency that is judged to be unlikely to cause mutually detrimental disturbance between itself and the other users who are allowed to use a TV broadcast frequency spectrum by a public institution.
19. The reception device as defined in Claim 18, wherein a digital modulated wave transmitted through an electric lamp wire is received.
20. The reception device as defined in Claim 18, wherein

a digital modulated wave transmitted through the air via radio waves is received.

21. A reception device comprising:

a reception means for receiving a digital modulated wave to which source information as information on the digital modulated wave is added and demodulating the digital modulated wave into a video/sound signal and the source information;

a speaker for outputting sound;

a display for projecting video; and

a control means for receiving the video/sound signal and the source information from the reception means, and outputting the sound signal to the speaker, while outputting a signal indicating video on the basis of the source information and the video signal from the reception means to the display.

22. A repeater for receiving a digital modulated wave to which a frequency list is added, creating a second frequency list in which frequency used for transmission of the digital modulated wave is deleted from the frequency list, and transmitting the digital modulated wave with the second frequency list added thereto.

23. A frequency list sending device for sending a list of frequencies that are judged to be unlikely to cause mutually detrimental disturbance between themselves and the other users who are allowed to use a TV broadcast frequency spectrum by a public institution.

24. A transmission reception system comprising:

a frequency list sending device for sending a list of frequencies that are judged to be unlikely to cause mutually detrimental disturbance between themselves and the other users who are allowed to use a TV broadcast frequency spectrum by a public institution;

a transmission device for receiving the frequency list and transmitting a digital modulated wave using frequency in the frequency list; and

a reception device for receiving the digital modulated wave transmitted from the transmission device, wherein

the transmission device does not transmit the digital modulated wave when the frequency list is not updated within a previously determined period.